osbpd
Office of Statewide Health Planning & Development

FORMAT and FILE SPECIFICATIONS
California Coronary Artery Bypass Graft (CABG)
Outcomes Reporting Program
(CCORP)

Version 5.1

Effective for DISCHARGES occurring
on or after July 1, 2011

COPC
Cardiac
Online
Reporting
for
California

MINIMUM PC CONFIGURATION

1. Access to a personal computer (with the following minimum configuration)
   - 1 GHz processor, 1GB RAM, 40 GB hard drive (at least 200MB free)
   - High speed Internet connection (preferred) or 56k modem or faster
   - Microsoft Internet Explorer version 7.0 (or higher) with 128-bit Secure Socket Layer (SSL)
   - Adobe Acrobat Reader version 7.0 (or higher)
   - Virus Checking Software
   - File Compression Program
     CORC accepts files that are 3MB or less. Data files over 3MB *must* be compressed in order to be accepted by CORC

2. Internet access (ISP)

3. E-mail

STANDARD RECORD FORMAT

Deviation from the format will not be accepted
   - One reporting facility and time period per file
   - Standard ASCII character coding
   - Record length 207 characters

ADDITIONAL REQUIREMENTS

   - No packed or binary data
   - The data file *must* be a text file with the extension of ".txt"

FILE COMPRESSION

Data files may be compressed (zipped) to speed up the file uploading time. The following compression applications are supported and can be obtained from the manufacturer's website:
   - gzip
   - Pkzip
   - Winzip

Standard Record Format

Data Element	Start	End	Type & Size	
Medical Record Number	1	12	A/N	(12)
Isolated CABG	13	13	N	(1)
Date of Surgery	14	21	N	(8)
Date of Birth	22	29	N	(8)
Patient Age	30	32	N	(3)
Sex	33	33	N	(1)
Race - White	34	34	N	(1)
Race - Black/African American	35	35	N	(1)
Race - Asian	36	36	N	(1)
Race - American Indian/Alaskan Native	37	37	N	(1)
Race - Native Hawaiian/Pacific Islander	38	38	N	(1)
Race - Other	39	39	N	(1)
Hispanic or Latino or Spanish Ethnicity	40	40	N	(1)
Date of Discharge	41	48	N	(8)
Discharge Status	49	49	N	(1)
Date of Death	50	57	N	(8)
Responsible Surgeon Name:				
Last Name	58	82	A	(25)
First Name	83	102	A	(20)
Middle Initial	103	103	A	(1)
Responsible Surgeon CA License Number	104	112	A/N	(9)
Weight (kg)	113	116	N	(4)
Height (cm)	117	120	N	(4)
INR	121	123	N	(3)
Total Bilirubin	124	126	N	(3)
Total Albumin	127	129	N	(3)
Last Creatinine Level	130	132	N	(3)
Diabetes	133	133	N	(1)
Diabetes Control	134	134	N	(1)
Dialysis	135	135	N	(1)
Hypertension	136	136	N	(1)
Infectious Endocarditis	137	137	N	(1)
Infectious Endocarditis Type	138	138	N	(1)
Chronic Lung Disease	139	139	N	(1)
Liver Disease	140	140	N	(1)
Immunocompromise	141	141	N	(1)
Peripheral Arterial Disease	142	142	N	(1)
Cerebrovascular Disease	143	143	N	(1)
Prior Cerebrovascular Accident	144	144	N	(1)
Prior Cerebrovascular Accident When	145	145	N	(1)
CVD – TIA	146	146	N	(1)
CVD – Carotid Stenosis	147	147	N	(1)
CVD – Prior Carotid Surgery	148	148	N	(1)
Previous Coronary Artery Bypass Graft	149	149	N	(1)
Previous Valve	150	150	N	(1)
Previous PCI	151	151	N	(1)

Data Element (cont'd)	Start	End	Type	& Size
Previous PCI - Interval	152	152	N	(1)
Prior Myocardial Infarction	153	153	N	(1)
Myocardial Infarction When	154	154	N	(1)
Heart Failure within 2 weeks	155	155	N	(1)
Classification - NYHA	156	156	N	(1)
Cardiogenic Shock	157	157	N	(1)
Resuscitation	158	158	N	(1)
Arrhythmia When	159	159	N	(1)
Arrhythmia Type – VTach/VFib	160	160	N	(1)
Arrhythmia Type – 3rd Degree Heart Block	161	161	N	(1)
Arrhythmia Type – AFib/Aflutter	162	162	N	(1)
Meds - Coumadin (within 24 hours)	163	163	N	(1)
Warfarin Use (within 5 days)	164	164	N	(1)
Number of Diseased Coronary Vessels	165	165	N	(1)
Left Main Disease	166	166	N	(1)
Ejection Faction Done	167	167	N	(1)
Ejection Fraction	168	170	N	(3)
Ejection Fraction Method	171	171	N	(1)
PA Systolic Pressure Measured	172	172	N	(1)
PA Systolic Pressure	173	176	N	(4)
Insufficiency - Mitral	177	177	N	(1)
Incidence	178	178	N	(1)
Status	179	179	N	(1)
Emergent Reason	180	181	N	(2)
CPB Utilization	182	182	N	(1)
CPB Utilization-Combination Plan	183	183	N	(1)
Internal Mammary Artery Used	184	184	N	(1)
Left Anterior Descending Artery Bypassed	185	185	N	(1)
Valve Procedure	186	186	N	(1)
Aortic Valve	187	187	N	(1)
Aortic Valve Procedure	188	189	N	(2)
Mitral Valve	190	190	N	(1)
Mitral Valve Procedure	191	191	N	(1)
Tricuspid Procedure	192	192	N	(1)
Pulmonic Procedure	193	193	N	(1)
Reoperation for Bleed	194	194	N	(1)
Reintervention - Graft Occlusion	195	195	N	(1)
Deep Sternal Infection	196	196	N	(1)
Neuro – Stroke Permanent	197	197	N	(1)
Pulm – Ventilation Prolonged	198	198	N	(1)
Renal - Renal Failure	199	199	N	(1)
Renal - Dialysis Requirement	200	200	N	(1)
Other - A Fib	201	201	N	(1)
Facility Identification Number	202	207	N	(6)

FOOTNOTES

1. Type & Size indicate data type and length (in parentheses). Data type is defined as:
    A = Alpha
    N = Numeric
    A/N = Alphanumeric

Data Field Specifications

MEDICAL RECORD NUMBER

Record Position:	1 through 12
Data Length:	12
Data Type:	Alphanumeric
Harvest Codes:	N/A
Special Instructions:	1. This field *must not* be blank.
	2. **Duplicate MRNs**: DO NOT submit a 2nd CABG case when surgery was due to a complication of the initial surgery.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	170
Coding Classification:	Demographics

ISOLATED CABG

Record Position:	13
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. This field *must not* be blank.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	N/A; ***CCORP-specific variable***
Coding Classification:	Operative

DATE OF SURGERY

Record Position:	14 through 21
Data Length:	8
Data Type:	Numeric
Harvest Codes:	<u>09</u> <u>09</u> <u>9999</u>
	Month Day Year
Special Instructions:	1. This field *must not* be blank.
	2. Single-digit months and days *must* include a preceding zero.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	610
Coding Classification:	Hospitalization

DATE OF BIRTH

Record Position:	22 through 29
Data Length:	8
Data Type:	Numeric
Harvest Codes:	<u>09</u> <u>09</u> <u>9999</u>
	Month Day Year
Special Instructions:	1. Single-digit months and days _must_ include a preceding zero.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	130
Coding Classification:	Demographics

PATIENT AGE

Record Position:	30 through 32
Data Length:	3
Data Type:	Numeric
Harvest Codes:	N/A
Special Instructions:	N/A
Range:	18 – 100; low = 18, high = 110
Parent/Child Relationship:	N/A
STS Sequence Number:	140
Coding Classification:	Demographics

SEX

Record Position:	33
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Male; 2 = Female
Special Instructions:	1. This field _must not_ be blank.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	150
Coding Classification:	Demographics

RACE - WHITE

Record Position:	34
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	290
Coding Classification:	Demographics

RACE – BLACK/AFRICAN AMERICAN

Record Position:	35
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	300
Coding Classification:	Demographics

RACE - ASIAN

Record Position:	36
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	310
Coding Classification:	Demographics

RACE – AMERICAN INDIAN/ALASKAN NATIVE

Record Position:	37
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	320
Coding Classification:	Demographics

RACE – NATIVE HAWAIIAN/PACIFIC ISLANDER

Record Position:	38
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	330
Coding Classification:	Demographics

RACE – OTHER

Record Position:	39
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	340
Coding Classification:	Demographics

HISPANIC OR LATINO OR SPANISH ETHNICITY

Record Position:	40
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	350
Coding Classification:	Demographics

DATE OF DISCHARGE

Record Position: 41 through 48
Data Length: 8
Data Type: Numeric
Harvest Codes: <u>99</u>   <u>99</u>   <u>9999</u>
                    Month Day Year

Special Instructions:
1. This field *must not* be blank.
2. Single-digit months and days *must* include a preceding zero.

Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	620
Coding Classification:	Hospitalization

DISCHARGE STATUS

Record Position:	49
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Alive; 2 = Dead
Special Instructions:	1. This field *must not* be blank.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	6370
Coding Classification:	Mortality

DATE OF DEATH

Record Position:	50 through 57
Data Length:	8
Data Type:	Numeric
Harvest Codes:	<u>09</u> <u>09</u> <u>9999</u>
	Month Day Year
Special Instructions:	1. Single-digit months and days _must_ include a preceding zero.
Range:	N/A
Parent/Child Relationship:	Parent is 'Mortality'; STS sequence # 6360.
STS Sequence Number:	6400
Coding Classification:	Mortality

RESPONSIBLE SURGEON NAME - LAST

Record Position:	58 through 82
Data Length:	25
Data Type:	Alpha
Harvest Codes:	N/A
Special Instructions:	1. This field _must not_ be blank.
	2. Do not code titles such as "Junior", "Jr.", or "II" (second).
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	N/A; **_CCORP-specific variable_**
Coding Classification:	Operative

RESPONSIBLE SURGEON NAME - FIRST

Record Position:	83 through 102
Data Length:	20
Data Type:	Alpha
Harvest Codes:	N/A
Special Instructions:	1. This field _must not_ be blank.
	2. Do not code titles such as "Junior", "Jr." or "II" (second).
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	N/A; **_CCORP-specific variable_**
Coding Classification:	Operative

RESPONSIBLE SURGEON NAME – MIDDLE INITIAL

Record Position:	103
Data Length:	1
Data Type:	Alpha
Harvest Codes:	N/A
Special Instructions:	1. *Must be provided* if middle name is noted on license via California Medical Board
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	N/A; **CCORP-specific variable**
Coding Classification:	Operative

RESPONSIBLE SURGEON CA LICENSE NUMBER

Record Position:	104 through 112
Data Length:	9
Data Type:	Alphanumeric
Harvest Codes:	N/A
Special Instructions:	1. This field *must not* be blank.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	N/A; **CCORP-specific variable**
Coding Classification:	Operative

WEIGHT (kg)

Record Position:	113 through 116
Data Length:	4
Data Type:	Numeric
Harvest Codes:	N/A
Special Instructions:	1. Measured in kilograms
	2. Do not code decimal
Range:	40.0 – 170.0; low = 10.0, high = 250.0
Parent/Child Relationship:	N/A
STS Sequence Number:	630
Coding Classification:	Risk Factors

HEIGHT (cm)

Record Position:	117 through 120
Data Length:	4
Data Type:	Numeric
Harvest Codes:	N/A
Special Instructions:	1. Measured in centimeters
	2. Do not code decimal
Range:	122.0 – 213.0; low = 20.0, high = 251.0
Parent/Child Relationship:	N/A
STS Sequence Number:	640
Coding Classification:	Risk Factors

INR

Record Position:	121 through 123
Data Length:	3
Data Type:	Numeric
Harvest Codes:	N/A
Special Instructions:	1. Do not code decimal
Range:	0.9 – 1.3; low = 0.5, high = 30.0
Parent/Child Relationship:	N/A
STS Sequence Number:	710
Coding Classification:	Risk Factors

TOTAL BILIRUBIN

Record Position:	124 through 126
Data Length:	3
Data Type:	Numeric
Harvest Codes:	N/A
Special Instructions:	1. Do not code decimal
Range:	0.2 – 1.3; low = 0.1, high = 50.0
Parent/Child Relationship:	N/A
STS Sequence Number:	720
Coding Classification:	Risk Factors

TOTAL ALBUMIN

Record Position:	127 through 129
Data Length:	3
Data Type:	Numeric
Harvest Codes:	N/A
Special Instructions:	1. Do not code decimal
Range:	3.5 – 5.0; low = 1.0, high = 10.0
Parent/Child Relationship:	N/A
STS Sequence Number:	730
Coding Classification:	Risk Factors

LAST CREATININE LEVEL

Record Position:	130 through 132
Data Length:	3
Data Type:	Numeric
Harvest Codes:	N/A
Special Instructions:	1. Do not code decimal
Range:	0.1 – 9.0; low = 0.1, high = 30.0
Parent/Child Relationship:	N/A
STS Sequence Number:	750
Coding Classification:	Risk Factors

DIABETES

Record Position:	133
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	780
Coding Classification:	Risk Factors

DIABETES CONTROL

Record Position:	134
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = None; 2 = Diet; 3 = Oral; 4 = Insulin; 5 = Other
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	Parent is "Diabetes"; STS sequence #780
STS Sequence Number:	790
Coding Classification:	Risk Factors

DIALYSIS

Record Position:	135
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. This field *must not* be blank.
	2. If 'Yes', POSTOPERATIVE DIALYSIS REQUIREMENT field must be coded 'No'.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	810
Coding Classification:	Risk Factors

HYPERTENSION

Record Position:	136
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	820
Coding Classification:	Risk Factors

INFECTIOUS ENDOCARDITIS

Record Position:	137
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	830
Coding Classification:	Risk Factors

INFECTIOUS ENDOCARDITIS TYPE

Record Position:	138
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Treated; 2 = Active
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	Parent is "Infectious Endocarditis"; STS sequence #830
STS Sequence Number:	840
Coding Classification:	Risk Factors

CHRONIC LUNG DISEASE

Record Position:	139
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = No
	2 = Mild
	3 = Moderate
	4 = Severe
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	860
Coding Classification:	Risk Factors

LIVER DISEASE

Record Position:	140
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	960
Coding Classification:	Risk Factors

IMMUNOCOMPROMISE

Record Position:	141
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	970
Coding Classification:	Risk Factors

PERIPHERAL ARTERIAL DISEASE

Record Position:	142
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	980
Coding Classification:	Risk Factors

CEREBROVASCULAR DISEASE

Record Position:	143
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. If this is "1" then at least one of the following CVD TYPE fields should be coded as follows: PRIOR CVA, TIA and CAROTID SURGERY must be "1" **OR** CAROTID STENOSIS _must_ be "2, 3, or 4"
	2. If this is "2" then ALL of the ABOVE fields _must_ be blank.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	1010
Coding Classification:	Risk Factors

PRIOR CEREBROVASCULAR ACCIDENT

Record Position:	144
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	If this is "1" then the PRIOR CVA WHEN field _must_ be specified.
Range:	N/A
Parent/Child Relationship:	Parent is "CVD"; STS sequence #1010
STS Sequence Number:	1020
Coding Classification:	Risk Factors

PRIOR CEREBROVASCULAR ACCIDENT WHEN

Record Position:	145
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Recent (<=2 wk.); 2 = Remote (>2 wk.)
Special Instructions:	If the PRIOR CVA ACCIDENT field is "1" then the PRIOR CVA WHEN field _must_ specified.
Range:	N/A
Parent/Child Relationship:	Parent is "CVA = YES"; STS sequence #1020
STS Sequence Number:	1030
Coding Classification:	Risk Factors

CVD – TIA

Record Position:	146
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	See CEREBROVASCULAR DISEASE field
Range:	N/A
Parent/Child Relationship:	Parent is "CVD"; STS sequence #1010
STS Sequence Number:	1050
Coding Classification:	Risk Factors

CVD – CAROTID STENOSIS

Record Position:	147
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = None; 2 = Right; 3 = Left; 4 = Both
Special Instructions:	See CEREBROVASCULAR DISEASE field
Range:	N/A
Parent/Child Relationship:	Parent is "CVD"; STS sequence #1010
STS Sequence Number:	1070
Coding Classification:	Risk Factors

CVD – PRIOR CAROTID SURGERY

Record Position:	148
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	See CEREBROVASCULAR DISEASE field
Range:	N/A
Parent/Child Relationship:	Parent is "CVD"; STS sequence #1010
STS Sequence Number:	1080
Coding Classification:	Risk Factors

PREVIOUS CABG (*CORONARY ARTERY BYPASS GRAFT*)

Record Position:	149
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. CCORP requires the Null to be filled with "2" (for 'No').
Range:	N/A
Parent/Child Relationship:	Parent is "Previous CV Intervention = Yes"; STS sequence #1200
STS Sequence Number:	1215
Coding Classification:	Previous Cardiac Interventions

PREVIOUS VALVE

Record Position:	150
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. CCORP requires the Null to be filled with "2" (for 'No').
Range:	N/A
Parent/Child Relationship:	Parent is "Previous CV Intervention = Yes"; STS sequence #1200
STS Sequence Number:	1216
Coding Classification:	Previous Cardiac Interventions

PREVIOUS PCI (*PERCUTANEOUS CORONARY INTERVENTION*)

Record Position:	151
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. This field *must not* be blank. CCORP requires the Null to be filled with "2" (for 'No').
	2. If this field is "1" then the INTERVAL field *must not* be blank.
Range:	N/A
Parent/Child Relationship:	Parent is "Previous CV Intervention = Yes"; STS sequence #1200
STS Sequence Number:	1480
Coding Classification:	Previous Cardiac Interventions

PREVIOUS PCI - INTERVAL

Record Position:	152
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = <=6 Hours; 2 = >6 Hours
Special Instructions:	If the PREVIOUS PCI field is "2" then this field *must* be blank.
Range:	N/A
Parent/Child Relationship:	Parent is "Previous PCI = Yes"; STS sequence #1480
STS Sequence Number:	1520
Coding Classification:	Previous Cardiac Interventions

PRIOR MI (*MYOCARDIAL INFARCTION*)

Record Position:	153
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. If this field is "1" then the MI WHEN field *must not* be blank.
	2. If this field is "2" then the MI WHEN field *must* be blank.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	1540
Coding Classification:	Preoperative Cardiac Status

MI WHEN

Record Position:	154
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = <=6 Hrs
	2 = >6 Hrs but <24 Hrs
	3 = 1 to 7 Days
	4 = 8 to 21 Days
	5 = >21 Days
Special Instructions:	See PRIOR MI special instructions.
Range:	N/A
Parent/Child Relationship:	Parent is "PRIOR MI = Yes"; STS sequence #1540
STS Sequence Number:	1550
Coding Classification:	Preoperative Cardiac Status

HEART FAILURE within 2 weeks

Record Position:	155
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	If CHF is coded "1" then the NYHA CLASSIFICATION field *must not* be blank.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	1580
Coding Classification:	Preoperative Cardiac Status

CLASSIFICATION - NYHA

Record Position:	156
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Class I
	2 = Class II
	3 = Class III
	4 = Class IV
Special Instructions:	See CHF special instructions.
Range:	N/A
Parent/Child Relationship:	Parent is "CHF = Yes"; STS sequence #1580
STS Sequence Number:	1585
Coding Classification:	Preoperative Cardiac Status

CARDIOGENIC SHOCK

Record Position:	157
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	1620
Coding Classification:	Preoperative Cardiac Status

RESUSCITATION

Record Position:	158
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	1630
Coding Classification:	Preoperative Cardiac Status

ARRHYTHMIA WHEN

Record Position:	159
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = None; 2 = Remote (> 30 days); 3 = Recent (<= 30 days)
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	1650
Coding Classification:	Preoperative Cardiac Status

ARRHYTHMIA TYPE – VTACH/VFIB

Record Position:	160
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	Parent is "Arrhythmia When = 3 (Recent)"; STS sequence #1650
STS Sequence Number:	1660
Coding Classification:	Preoperative Cardiac Status

ARRHYTHMIA TYPE – 3rd DEGREE HEART BLOCK

Record Position:	161
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	Parent is "Arrhythmia When = 3 (Recent)"; STS sequence #1650
STS Sequence Number:	1690
Coding Classification:	Preoperative Cardiac Status

ARRHYTHMIA TYPE – AFIB/AFLUTTER

Record Position:	162
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	Parent is "Arrhythmia When = 3 (Recent)"; STS sequence #1650
STS Sequence Number:	1700
Coding Classification:	Preoperative Cardiac Status

MEDS - COUMADIN (within 24 hours)

Record Position:	163
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	1780
Coding Classification:	Preoperative Medications

WARFARIN USE (within 5 days)

Record Position:	164
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	N/A; *CCORP-specific variable*
Coding Classification:	Preoperative Medications

NUMBER DISEASED VESSELS

Record Position:	165
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = None
	2 = One
	3 = Two
	4 = Three
Special Instructions:	1. Left main disease (>=50%) is counted as Two vessels (LAD and Circumflex).
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	1930
Coding Classification:	Hemodynamics / Cath / Echo

LEFT MAIN DISEASE

Record Position:	166
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	1940
Coding Classification:	Hemodynamics / Cath / Echo

EJECTION FRACTION DONE

Record Position: 167
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes; 2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 1950
Coding Classification: Hemodynamics / Cath / Echo

EJECTION FRACTION (%)

Record Position: 168 through 170
Data Length: 3
Data Type: Numeric
Harvest Codes: N/A

Special Instructions: 1.   Do not code decimal
Range: 5.0 – 90.0; low = 1.0, high = 99.0
Parent/Child Relationship: Parent is "EF Done = Yes"; STS sequence #1950
STS Sequence Number: 1960
Coding Classification: Hemodynamics / Cath / Echo

EJECTION FRACTION METHOD

Record Position: 171
Data Length: 1
Data Type: Numeric
Harvest Codes: 2 = LV Gram
                            3 = Radionucleotide
                            4 = Estimate
                            5 = ECHO
                            6 = MRI/CT
                            9 = Other
Special Instructions: If the EJECTION FRACTION DONE field is "2"
                            then this field _must_ be blank.
Range: N/A
Parent/Child Relationship: Parent is "EF Done = Yes"; STS sequence #1950
STS Sequence Number: 1970
Coding Classification: Hemodynamics / Cath / Echo

PA SYSTOLIC PRESSURE MEASURED

Record Position:	172
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	2020
Coding Classification:	Hemodynamics / Cath / Echo

PA SYSTOLIC PRESSURE

Record Position:	173 through 176
Data Length:	4
Data Type:	Numeric
Harvest Codes:	N/A
Special Instructions:	1. Do not code decimal
Range:	15.0 – 30.0; low = 10.0, high = 150.0
Parent/Child Relationship:	Parent is "PA Systolic Pressure Measured = Yes"; STS sequence #2020
STS Sequence Number:	2030
Coding Classification:	Hemodynamics / Cath / Echo

INSUFFICIENCY - MITRAL

Record Position:	177
Data Length:	1
Data Type:	Numeric
Harvest Codes:	0 = None
	1 = Trivial/Trace
	2 = Mild
	3 = Moderate
	4 = Severe
Special Instructions:	1. Enter highest level recorded in chart.
	2. STS Users – fill null with '0' for None
Range:	N/A
Parent/Child Relationship:	Parent is "VD - Mitral = Yes"; STS sequence #2160
STS Sequence Number:	2270
Coding Classification:	Hemodynamics / Cath / Echo

INCIDENCE

Record Position:	178
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = First cardiovascular surgery
	2 = First re-op cardiovascular surgery
	3 = Second re-op cardiovascular surgery
	4 = Third re-op cardiovascular surgery
	5 = Fourth or more re-op cardiovascular surgery
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	2380
Coding Classification:	Operative

STATUS

Record Position:	179
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Elective
	2 = Urgent
	3 = Emergent
	4 = Emergent Salvage
Special Instructions:	1. This field *must not* be blank.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	2390
Coding Classification:	Operative

EMERGENT REASON

Record Position:	180 through 181
Data Length:	2
Data Type:	Numeric
Harvest Codes:	1 = Shock with circulatory support
	2 = Shock without circulatory support
	3 = Pulmonary edema
	4 = AEMI
	5 = Ongoing Ischemia
	6 = Valve Dysfunction
	7 = Aortic Dissection
	8 = Angiographic Accident
	9 = Cardiac Trauma
	10 = Infected Device
	11 = Syncope
	12 = PCI/CABG Hybrid
	13 = Anatomy
Special Instructions:	If the STATUS field is "3" then this field *must not* be blank.
Range:	N/A
Parent/Child Relationship:	Parent is "Status = Emergent"; STS sequence #2390
STS Sequence Number:	2410
Coding Classification:	Operative

CPB UTILIZATION

Record Position:	182
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = None
	2 = Combination
	3 = Full
Special Instructions:	1. If this field is "2" then CPB UTILIZATION-COMBINATION PLAN *must not* be blank.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	2740
Coding Classification:	Operative

CPB UTILIZATION-COMBINATION PLAN

Record Position:	183
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Planned
	2 = Unplanned
Special Instructions:	See CPB Utilization special instructions.
Range:	N/A
Parent/Child Relationship:	Parent is "CPB Utilization" with valid value of 2 (Combination); STS sequence #2740
STS Sequence Number:	2750
Coding Classification:	Operative

IMA ARTERY USED

Record Position:	184
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Left IMA
	2 = Right IMA
	3 = Both IMAs
	4 = No IMA
Special Instructions:	1. STS Users – fill null with '4' (No IMA)
Range:	N/A
Parent/Child Relationship:	Parent is "OpCAB = Yes"; STS sequence #2437
STS Sequence Number:	3210
Coding Classification:	Coronary Bypass

LEFT ANTERIOR DESCENDING ARTERY BYPASSED

Record Position:	185
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	N/A; ***CCORP-specific variable***
Coding Classification:	Coronary Bypass

VALVE PROCEDURE

Record Position:	186
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	2440
Coding Classification:	Operative

AORTIC VALVE

Record Position:	187
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	Parent is "OpVALVE = Yes"; STS sequence #2440
STS Sequence Number:	4270
Coding Classification:	Valve Surgery

AORTIC VALVE PROCEDURE

Record Position:	188 through 189
Data Length:	2
Data Type:	Numeric
Harvest Codes:	1 = Replacement
	2 = Repair/Reconstruction
	3 = Root reconstruction with valved conduit
	4 = Replacement and insertion aortic non-valved conduit
	5 = Resuspension AV without replacement of ascending aorta
	6 = Resuspension AV with replacement of ascending aorta
	7 = Apico-aortic conduit (Aortic valve bypass)
	8 = Autograft with pulmonary valve – Ross procedure
	9 = Homograft
	10 = Valve sparing root reimplantation (David)
	11 = Valve sparing root remodeling (Yacoub)
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	Parent is "Aortic Valve = Yes"; STS sequence #4270
STS Sequence Number:	4280
Coding Classification:	Valve Surgery

MITRAL VALVE

Record Position:	190
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	Parent is "OpVALVE = Yes"; STS sequence #2440
STS Sequence Number:	4351
Coding Classification:	Valve Surgery

MITRAL VALVE PROCEDURE

Record Position:	191
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Repair
	2 = Replacement
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	Parent is "Mitral Valve = Yes"; STS sequence #4351
STS Sequence Number:	4352
Coding Classification:	Valve Surgery

TRICUSPID PROCEDURE

Record Position:	192
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = No
	2 = Annuloplasty only
	3 = Replacement
	4 = Reconstruction with annuloplasty
	5 = Reconstruction without annuloplasty
	6 = Valvectomy
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	Parent is "OpVALVE = Yes"; STS sequence #2440
STS Sequence Number:	4500
Coding Classification:	Valve Surgery

PULMONIC PROCEDURE

Record Position:	193
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = No
	2 = Replacement
	3 = Reconstruction
	4 = Valvectomy
Special Instructions:	N/A
Range:	N/A
Parent/Child Relationship:	Parent is "OpVALVE = Yes"; STS sequence #2440
STS Sequence Number:	4560
Coding Classification:	Valve Surgery

REOPERATION FOR BLEED

Record Position:	194
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. This field _must not_ be blank. CCORP requires the Null to be filled with "2" (for 'No').
Range:	N/A
Parent/Child Relationship:	Parent is "Post-Op Events = Yes"; STS sequence #5759
STS Sequence Number:	5760
Coding Classification:	Postoperative Events

REINTERVENTION - GRAFT OCCLUSION

Record Position:	195
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. This field _must not_ be blank. CCORP requires the Null to be filled with "2" (for 'No').
Range:	N/A
Parent/Child Relationship:	Parent is "Post-Op Events = Yes"; STS sequence #5759
STS Sequence Number:	5790
Coding Classification:	Postoperative Events

DEEP STERNAL INFECTION

Record Position:	196
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. This field *must not* be blank. CCORP requires the Null to be filled with "2" (for 'No').
Range:	N/A
Parent/Child Relationship:	Parent is "Post-Op Surgical Site Infection = Yes"; STS sequence #5841
STS Sequence Number:	5860
Coding Classification:	Postoperative Events

NEURO – STROKE PERMANENT

Record Position:	197
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. This field *must not* be blank. CCORP requires the Null to be filled with "2" (for 'No').
Range:	N/A
Parent/Child Relationship:	Parent is "Post-Op Events = Yes"; STS sequence #5759
STS Sequence Number:	6030
Coding Classification:	Postoperative Events

PULM – VENTILATION PROLONGED

Record Position:	198
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. This field *must not* be blank. CCORP requires the Null to be filled with "2" (for 'No').
Range:	N/A
Parent/Child Relationship:	Parent is "Post-Op Events = Yes"; STS sequence #5759
STS Sequence Number:	6130
Coding Classification:	Postoperative Events

RENAL - RENAL FAILURE

Record Position:	199
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. This field *must not* be blank. CCORP requires the Null to be filled with "2" (for 'No').
Range:	N/A
Parent/Child Relationship:	Parent is "Post-Op Events = Yes"; STS sequence #5759
STS Sequence Number:	6200
Coding Classification:	Postoperative Events

RENAL - DIALYSIS REQUIREMENT

Record Position:	200
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. This field *must not* be blank. CCORP requires the Null to be filled with "2" (for 'No').
	2. If the (pre-op risk factor) DIALYSIS field is "1" then this field *must* be "2".
Range:	N/A
Parent/Child Relationship:	Parent is "Post-Op Renal Failure = Yes"; STS sequence #6200
STS Sequence Number:	6210
Coding Classification:	Postoperative Events

OTHER - A FIB

Record Position:	201
Data Length:	1
Data Type:	Numeric
Harvest Codes:	1 = Yes; 2 = No
Special Instructions:	1. This field *must not* be blank. CCORP requires the Null to be filled with "2" (for 'No').
Range:	N/A
Parent/Child Relationship:	Parent is "Post-Op Events = Yes"; STS sequence #5759
STS Sequence Number:	6330
Coding Classification:	Postoperative Events

FACILITY IDENTIFICATION NUMBER

Record Position:	202 through 207
Data Length:	6
Data Type:	Numeric
Harvest Codes:	N/A
Special Instructions:	1. This field *must not* be blank.
	2. *Must* use OSHPD-issued six-digit number unique to each hospital.
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	N/A; ***CCORP-specific variable***
Coding Classification:	Hospitalization

Questions about the content of this document can be directed to:

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